

TOBACCO INDUSTRY RESEARCH COMMITTEE
350 FIFTH AVENUE NEW YORK 1, N. Y.

Salaries
Expendable Supplies
Application For Research Grant

Overhead

Other (Travel, Postage, etc.)
Analyses, etc. Date: *October 6, 1954*

Smoke tests w/ lot exp 33
How much?
How reacted?
How at all - are 9 much ext.
Caution of tobacco smoke
The finished
post *Arrive*

4. Budget Plan:

a) Marion B. Sulzberger, M. D.

7. Name of Investigator: b) Will Cook Spain, M. D.

c) Rosa Lee Memir, A.B., M.D.

a) Professor and Chairman, Dept. of Dermatology & Syphilology, New York University Post-Graduate Medical School; Director, New York Skin and Cancer Unit.

b) Professor of Clinical Medicine, Director of Allergy Section.

c) Associate Professor of Pediatrics, New York University School of Medicine, New York City.

8. Institution: New York University - Bellevue Medical Center, 1300 First Avenue, New York 16, N. Y.

4. Project or Subject:

Investigation of the effects of tobacco on the human vascular system in living volunteers; and in particular of the possibility that certain tobacco effects are based on peculiar allergic susceptibility of specific individuals rather than upon obligatorily toxic products in tobacco smoke: origin, cigarette

5. Detailed Plan: Previous studies by the first named Applicant (see attached reprints) and by others have shown that extracts of cigarette and other tobacco are capable of producing urticarial reactions in a certain percentage of human beings -- and that the incidence of these reactions is higher in: I. Patients with thrombo-angitis obliterans; II. Patients with other cardiovascular diseases sometimes associated with smoking; III. Heavy smokers.

It has also been demonstrated that a significant drop in temperature of the digits during cigarette smoking is demonstrable in about 30% of subjects treated. (Reddish). This figure of approximately 30% corresponds to the approximately 30% of smokers found to react with urticarial reactions to skin tests with tobacco -- but it is not known whether it is the same 30% -- i.e. whether those subjects with significant falls in temperature are also those with the urticarial skin responses.

It is planned to carry out the following critical experiments to establish whether or not specific allergic sensitization plays a basic role in vascular reactions to tobacco smoking:

A) Infants and children will be skin tested with tobacco extracts from various brands of cigarettes, and from various types of uncured tobacco, to ascertain whether the incidence of positive reactions increases with age or is related to exposure to tobacco (families of smokers and non-smokers etc.)

B) Adolescents and young adults will be tested to ascertain whether there is a significant increase in incidence of skin reactions at the time of beginning smoking.

(Continued on attached page)

By *Marion B. Sulzberger*, Supervisor of Finance

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5. Continued.

C) Patients with various vascular and other diseases which have sometimes been regarded as being made worse by smoking will be skin tested to ascertain whether their skin reactions are in higher incidence or greater intensity than those of control subjects of equivalent age and exposure to tobacco.

D) Volunteers will have the effects of smoking upon the temperature of their ~~exp~~ extremities accurately measured by the most exact modern instruments and will also have skin tests with a ~~large~~ battery of tobacco extracts -- to see whether there is a positive correlation between reduction in peripheral temperature and reactions to skin tests.

E) All the skin test ~~re~~ reactions from the battery of tobacco extracts will be statistically analyzed, not only in regard to host facts (such as age, tobacco exposure, smoking allergic and hereditary constitution, disease, etc.), but also in regard to relative capacity of various brands and types of tobacco to produce sensitization of the vascular ~~&~~ tree ("index of sensitization", "relative sensitizing potential").

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6. Budget Plan:

TOBACCO INDUSTRY RESEARCH COMMITTEE
350 FIFTH AVENUE NEW YORK 1, N. Y.

Salaries
Expendable Supplies
Applicable Permanent Equipment

\$ 10,000 per Annum

500 " "

1,500 " "

2,500 per Annum

500 " "

\$ 15,000

Other (Travel, Biostatistical analyses, etc.)

Date:

Total

a) Marion B. Sulzberger, M. D.

7. Anticipated Duration of Work: Will Cook, M. D.

a) Two years.

a) Professor and Chairman, Dept. of Dermatology & Syphilology, New York University

8. Facilities and Staff Available: Medical School, University Hospital, New York Skin and Cancer Unit.

b) Professor of Clinical Medicine, Department of Surgery Section.

c) Complete facilities and patients and selected staff of the Departments specified above at the New York Skin and Cancer Unit, University Hospital, Bellevue Hospital, Gouverneur Hospital and other teaching services of New York University-Bellevue Medical Center.

New York 16, N. Y.

9. Additional Requirements:

Investigation of the effects of tobacco on the human circulatory system in living

The most modern studies on the effects of smoking upon the temperature

of the extremities have been carried out in this medical center by Walter Reddish,

Supply of pure tobacco of different types and origin, cigarette tobacco of different brands.

10. Additional Information (including relation of work to other projects and other sources of supply):

The most modern studies on the effects of smoking upon the temperature of the extremities have been carried out in this medical center by Walter Reddish, M. D. (Goldwater Memorial Hospital). Dr. Reddish's experience with apparatus and techniques, advice and guidance should prove invaluable in that part of the study relating to temperature effects.

Dr. Spain's experience and the facilities of his technical staff and laboratories (Miss Margaret Strauss) should prove invaluable in the preparation and control of the tobacco extracts and skin testing.

The experience and clinical material of Dr. Nemir and the Department of Pediatrics (Dr. Adolf DeSanctis) and the help of the Biostatistical Department (Dr. Donald Mainland) should also be of the very greatest value in the design and execution of the study and the evaluation of the results.

It is planned to carry out the following critical experiments to determine whether or not specific allergic sensitization plays a basic role in tobacco-related tobacco smoking:

A) Infants and children will be skin tested with tobacco extracts from various brands of cigarettes and from various types of smoked tobacco, to determine whether the incidence of positive reactions increases with age as is related to exposure to tobacco (family of smokers and non-smokers etc.)

B) Adolescents and young adults will be skin tested with tobacco extracts to determine whether or not there is a significant increase in the incidence of skin reactions at this time of development.

Signature

Director Marion B. Sulzberger

(Continued on attached page)

By: Edwards E. Smith, Supervisor of Finance

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